

API MAPS AND CURL

Requirements

1. Curl must be installed on the machine.

Info

1. These commands can either be sent in the JSON format or X-WWW-FORM-URLENCODED content-type.
2. In this document the curl command examples in Table 2 use X-WWW-FORM-URLENCODED content-type.

API Map and CURL

Table 2 below shows a numbered list of curl commands and an example of how they should be implemented. The numbering in Table 1 gives a description of the corresponding numbered row in Table 2. Table 1 shows the API Map and Table 2, shows the Curl example implementations.

Table 1: API function mapping

Function	API / Description
1. Create a new user	/createuser/ - The API takes a username, password and email and then register the user. When the user is successfully registered, a JSON response with the registration details is sent back.
2. Login	/login/ - The API takes a username and password, authenticate them against the created user. If the user credentials are correct then a JSON response with an Authentication Token is returned. This token must be passed into the header of all

	<p>following requests for authorization. The header must look like this : "Authorization: Token 1a5a0d136d6cdaa0fd6f4796d5db39ca54ea323c"</p>
3. Create ,update and delete a savings account	<p>/savings/ - The API's action depends on the http verb,</p> <p>POST: A savings account is created and an initial balance >=50 must be passed on the body. The response returns the acc_id in a response JSON.</p> <p>PATCH: An existing savings account (specified in the URL parameter by ?acc_id=<int>) is edited. Specifically, the amount is manually altered. This API also takes a balance</p> <p>DETELE: An existing savings account (specified in the URL parameter by ?acc_id=<int>) is deleted.</p> <p>NB: The "acc_id" for the user's accounts can be found by making a request on /balances/ (see Table 1, number 7)</p>
4. Create ,update and delete a savings account	<p>/credit/ - The API's action depends on the http verb,</p> <p>POST: A credit account is created and an initial balance >=-20000 must be passed on the body. The response returns the acc_id in a response JSON.</p> <p>PATCH: An existing credit account (specified in the URL parameter by ?acc_id=<int>) is edited. Specifically, the amount is manually altered. This API also takes a balance</p> <p>DETELE: An existing credit account (specified in the URL parameter by ?acc_id=<int>) is deleted.</p> <p>NB: The "acc_id" for the user's accounts can be found by making a request on /balances/ (see Table 1, number 7)</p>
5. Transact in a savings account	<p>/savings/transact/ – only the POST method is allowed. The action (withdrawal or deposit) is specified by the URL parameter ?type=< withdraw deposit ></p> <p>The body of the request should specify the "amount" and "acc_id" to perform the transaction on.</p> <p>NB: The "acc_id" for the user's accounts can be found by making a request on /balances/ (see Table 1, number 7)</p>
6. Transact in a credit account	<p>/credit/transact/ – only the POST method is allowed. The action (withdrawal or deposit) is specified by the URL parameter ?type=< withdraw deposit ></p>

	<p>The body of the request should specify the “amount” and “acc_id” to perform the transaction on.</p> <p>NB: The “acc_id” for the user’s accounts can be found by making a request on /balances/ (see Table 1, number 7)</p>
7. Get accounts, balances, last 10 transactions	<p>/balances/ - This API takes a GET request and doesn’t need any data to be passed in the request body. It will return a JSON response with the values as described by requirement 7.</p>
8. Get CSV file	<p>/csv/ - This API generates a CVS file and then returns it. If entered in the web browser, the CSV file will download.</p>

NB: Where there is Authorization, the token used must be the one returned by the Login request

Table 2: List of functions and relating curl implementation examples

	URL params	Body values	Curl command examples
1. Create a new user		Username, password, email	curl -X POST http://localhost:8000/createuser/ -H "Content-Type: application/x-www-form-urlencoded" -d "username=katlego3" -d "password=katlego2" -d "email=sk@gmail.com"
2.Login		Username, password	curl -X POST http://localhost:8000/login/ -H "Content-Type: application/x-www-form-urlencoded" -d "username=katlego2" -d "password=katlego2"
3. Create ,update and delete a savings account	acc_id	balance	<p>CREATE:</p> <p>curl -X POST http://localhost:8000/savings/ -H "Content-Type: application/x-www-form-urlencoded" -H "Authorization: Token 1a5a0d136d6cdaa0fd6f4796d5db39ca54ea323c" -d "balance=50"</p> <p>UPDATE:</p>

			<p>curl -X PATCH http://localhost:8000/savings/?acc_id=4 -H "Content-Type: application/x-www-form-urlencoded" -H "Authorization: Token 1a5a0d136d6cdaa0fd6f4796d5db39ca54ea323c" -d "balance=500"</p> <p>DELETE:</p> <p>curl -X DELETE http://localhost:8000/savings/?acc_id=2 -H "Authorization: Token 1a5a0d136d6cdaa0fd6f4796d5db39ca54ea323c"</p>
4. Create ,update and delete a savings account	acc_id	balance	<p>UPDATE:</p> <p>curl -X POST http://localhost:8000/credit/ -H "Content-Type: application/x-www-form-urlencoded" -H "Authorization: Token d9d81961f0d574c76fb5052e259027cae5e1f140" -d "balance=0"</p> <p>UPDATE:</p> <p>curl -X PATCH http://localhost:8000/credit/?acc_id=2 -H "Content-Type: application/x-www-form-urlencoded" -H "Authorization: Token 1a5a0d136d6cdaa0fd6f4796d5db39ca54ea323c" -d "balance=5000"</p> <p>DELETE:</p> <p>curl -X DELETE http://localhost:8000/credit/?acc_id=2 -H "Authorization: Token 1a5a0d136d6cdaa0fd6f4796d5db39ca54ea323c"</p>
5. Transact in a savings account	Type (withdraw or deposit)	Acc_id, amount	<p>DEPOSIT:</p> <p>curl -X POST http://localhost:8000/savings/transact/?type=deposit -H "Content-Type: application/x-www-form-urlencoded" -H "Authorization: Token 1a5a0d136d6cdaa0fd6f4796d5db39ca54ea323c" -d "amount=50" -d "acc_id=3"</p> <p>WIDTHDRAW:</p>

			curl -X POST http://localhost:8000/savings/transact/?type=widthdraw -H "Content-Type: application/x-www-form-urlencoded" -H "Authorization: Token 1a5a0d136d6cdaa0fd6f4796d5db39ca54ea323c" -d "amount=50" -d "acc_id=3"
6. Transact in a credit account	Type (withdraw or deposit)	Acc_id, amount	DEPOSIT: curl -X POST http://localhost:8000/credit/transact/?type=deposit -H "Content-Type: application/x-www-form-urlencoded" -H "Authorization: Token 1a5a0d136d6cdaa0fd6f4796d5db39ca54ea323c" -d "amount=50" -d "acc_id=3" WIDTHDRAW: curl -X POST http://localhost:8000/credit/transact/?type=widthdraw -H "Content-Type: application/x-www-form-urlencoded" -H "Authorization: Token 1a5a0d136d6cdaa0fd6f4796d5db39ca54ea323c" -d "amount=50" -d "acc_id=3"
7. Get accounts, balances, last 10 transactions			curl -X GET http://localhost:8000/balances/ -H "Accept: application/json" -H "Authorization: Token 1a5a0d136d6cdaa0fd6f4796d5db39ca54ea323c"
8. Get CSV file			View from terminal curl -X GET http://localhost:8000/csv/ Download from browser http://localhost:8000/csv/